

## ATTACHMENT A

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DEP7007 Forms (AI, J, N and V)

## Division for Air Quality

300 Sower Boulevard  
Frankfort, KY 40601  
(502) 564-3999

## DEP7007AI

## Administrative Information

- ☐ Section AI.1: Source Information  
☐ Section AI.2: Applicant Information  
☐ Section AI.3: Owner Information  
☐ Section AI.4: Type of Application  
☐ Section AI.5: Other Required Information  
☐ Section AI.6: Signature Block  
☐ Section AI.7: Notes, Comments, and Explanations

## Additional Documentation

☐ Additional Documentation attached

Source Name: Buffalo Trace Distillery, Inc.

KY EIS (AFS) #: 21-073-00009

Permit #: V-12-056

Agency Interest (AI) ID: 1373

Date: 10/4/2019

## Section AI.1: Source Information

Physical Location Address:	Street:	<u>113 Great Buffalo Trace</u>		
	City:	<u>Frankfort</u>	County:	<u>Franklin</u>
			Zip Code:	<u>40601</u>
Mailing Address:	Street or P.O. Box:	<u>Same as physical address</u>		
	City:		State:	
			Zip Code:	

## Standard Coordinates for Source Physical Location

Longitude: -84.871° E (decimal degrees)      Latitude: 38.216694° N (decimal degrees)

Primary (NAICS) Category: Distilleries      Primary NAICS #: 312140

<b>Classification (SIC) Category:</b>		<u>Distilled and Blended Liquors</u>		<b>Primary SIC #:</b>		<u>2085</u>	
<b>Briefly discuss the type of business conducted at this site:</b>		The site produces distilled spirits. Grain is delivered, ground, and introduced to mash cookers. The mash is fed to fermenters and then to distillation columns and condensers. The resulting liquid is stored in tanks, transferred to barrels for aging, and/or sent to the bottling area for packaging. Barrels of bourbon are stored in rick houses for aging. The spent grain is sold as distiller's dried grain. Beverage ingredients are received in bulk for blending, and other distilled spirits are received by the facility in bulk and sent to the bottling area for packaging.					
<b>Description of Area</b>	<input type="checkbox"/> Rural Area	<input type="checkbox"/> Industrial Park	<input type="checkbox"/> Residential Area	<b>Is any part of the source located on federal land?</b>	<input type="checkbox"/> Yes	<b>Number of Employees:</b>	474
	<input type="checkbox"/> Urban Area	<input type="checkbox"/> Industrial Area	<input checked="" type="checkbox"/> Commercial Area		<input checked="" type="checkbox"/> No		
<b>Surrounding Approximate distance to nearest residence or commercial</b>	<u>Adjacent</u>		<b>Property Area:</b>	<u>430 Acres</u>	<b>Is this source portable?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?</b>							
<b>NPDES/KPDES:</b>	<input checked="" type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input type="checkbox"/> N/A				
<b>Solid Waste:</b>	<input type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input checked="" type="checkbox"/> N/A				
<b>RCRA:</b>	<input type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input checked="" type="checkbox"/> N/A				
<b>UST:</b>	<input type="checkbox"/> Currently Hold	<input type="checkbox"/> Need	<input checked="" type="checkbox"/> N/A				
<b>Type of Regulated Waste Activity:</b>	<input type="checkbox"/> Mixed Waste Generator	<input checked="" type="checkbox"/> Generator	<input type="checkbox"/> Recycler	<input type="checkbox"/> Other: _____			
	<input type="checkbox"/> U.S. Importer of Hazardous Waste	<input type="checkbox"/> Transporter	<input type="checkbox"/> Treatment/Storage/Disposal Facility	<input type="checkbox"/> N/A			

**Section AI.2: Applicant Information**

**Applicant Name:** Buffalo Trace Distillery

**Title:** (if individual) \_\_\_\_\_

**Mailing Address:** **Street or P.O. Box:** 113 Great Buffalo Trace  
**City:** Frankfort **State:** KY **Zip Code:** 40601

**Email:** (if individual) \_\_\_\_\_

**Phone:** (502) 223-7641

**Technical Contact**

**Name:** Andrew Leet

**Title:** Environmental Engineer

**Mailing Address:** **Street or P.O. Box:** 113 Great Buffalo Trace  
**City:** Frankfort **State:** KY **Zip Code:** 40601

**Email:** aleet@buffalotrace.com

**Phone:** (859) 705-8187

**Air Permit Contact for Source**

**Name:** Andrew Leet

**Title:** Environmental Engineer

**Mailing Address:** **Street or P.O. Box:** 113 Great Buffalo Trace  
**City:** Frankfort **State:** KY **Zip Code:** 40601

**Email:** aleet@buffalotrace.com

**Phone:** (859) 705-8187

### Section AI.3: Owner Information

☒ Owner same as applicant

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Mailing Address: Street or P.O. Box: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name

Position

Wholly-owned subsidiary of the Sazerac Company; New Orleans, LA

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Section AI.4: Type of Application

<b>Current Status:</b>	<input checked="" type="checkbox"/> Title V	<input type="checkbox"/> Conditional Major	<input type="checkbox"/> State-Origin	<input type="checkbox"/> General Permit	<input type="checkbox"/> Registration	<input type="checkbox"/> None
	<input type="checkbox"/> Name Change	<input type="checkbox"/> Initial Registration	<input type="checkbox"/> Significant Revision	<input type="checkbox"/> Administrative Permit Amendment		
<b>Requested Action:</b> (check all that apply)	<input checked="" type="checkbox"/> Renewal Permit	<input type="checkbox"/> Revised Registration	<input type="checkbox"/> Minor Revision	<input type="checkbox"/> Initial Source-wide Operating Permit		
	<input type="checkbox"/> 502(b)(10) Change	<input type="checkbox"/> Extension Request	<input type="checkbox"/> Addition of New Facility	<input type="checkbox"/> Portable Plant Relocation Notice		
	<input type="checkbox"/> Revision	<input type="checkbox"/> Off Permit Change	<input type="checkbox"/> Landfill Alternate Compliance Submitt	<input type="checkbox"/> Modification of Existing Facilities		
	<input type="checkbox"/> Ownership Change	<input type="checkbox"/> Closure				
<b>Requested Status:</b>	<input checked="" type="checkbox"/> Title V	<input type="checkbox"/> Conditional Major	<input type="checkbox"/> State-Origin	<input type="checkbox"/> PSD	<input type="checkbox"/> NSR	<input type="checkbox"/> Other: _____

<b>Is the source requesting a limitation of potential emissions?</b>				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<b>Pollutant:</b>	<b>Requested Limit:</b>	<b>Pollutant:</b>	<b>Requested Limit:</b>		
<input type="checkbox"/> Particulate Matter	_____	<input type="checkbox"/> Single HAP	_____		
<input type="checkbox"/> Volatile Organic Compounds (VOC)	_____	<input type="checkbox"/> Combined HAPs	_____		
<input type="checkbox"/> Carbon Monoxide	_____	<input type="checkbox"/> Air Toxics (40 CFR 68, Subpart F)	_____		
<input type="checkbox"/> Nitrogen Oxides	_____	<input type="checkbox"/> Carbon Dioxide	_____		
<input type="checkbox"/> Sulfur Dioxide	_____	<input type="checkbox"/> Greenhouse Gases (GHG)	_____		
<input type="checkbox"/> Lead	_____	<input type="checkbox"/> Other	_____		

### For New Construction:

**Proposed Start Date of Construction:**  
(MM/YYYY)

**Proposed Operation Start-Up Date:** (MM/YYYY)

### For Modifications:

**Proposed Start Date of Modification:**  
(MM/YYYY)

**Proposed Operation Start-Up Date:** (MM/YYYY)

**Applicant is seeking coverage under a permit shield.**

☐ Yes

☒ No

**Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.**

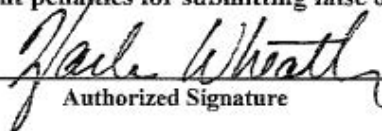
## Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- |  |   |
|--|---|
| <input type="checkbox"/> DEP7007A Indirect Heat Exchangers and Turbines                        | <input type="checkbox"/> DEP7007CC Compliance Certification                       |
| <input type="checkbox"/> DEP7007B Manufacturing or Processing Operations                       | <input type="checkbox"/> DEP7007DD Insignificant Activities                       |
| <input type="checkbox"/> DEP7007C Incinerators and Waste Burners                               | <input type="checkbox"/> DEP7007EE Internal Combustion Engines                    |
| <input type="checkbox"/> DEP7007F Episode Standby Plan   | <input type="checkbox"/> DEP7007FF Secondary Aluminum Processing                  |
| <input checked="" type="checkbox"/> DEP7007J Volatile Liquid Storage                           | <input type="checkbox"/> DEP7007GG Control Equipment                              |
| <input type="checkbox"/> DEP7007K Surface Coating or Printing Operations                       | <input type="checkbox"/> DEP7007HH Haul Roads                                     |
| <input type="checkbox"/> DEP7007L Mineral Processes  | <input type="checkbox"/> Confidentiality Claim                                    |
| <input type="checkbox"/> DEP7007M Metal Cleaning Degreasers                                    | <input type="checkbox"/> Ownership Change Form                                    |
| <input checked="" type="checkbox"/> DEP7007N Source Emissions Profile                          | <input type="checkbox"/> Secretary of State Certificate                           |
| <input type="checkbox"/> DEP7007P Perchloroethylene Dry Cleaning Systems                       | <input type="checkbox"/> Flowcharts or diagrams depicting process                 |
| <input type="checkbox"/> DEP7007R Emission Offset Credit                                       | <input type="checkbox"/> Digital Line Graphs (DLG) files of buldings, roads, etc. |
| <input type="checkbox"/> DEP7007S Service Stations   | <input type="checkbox"/> Site Map   |
| <input type="checkbox"/> DEP7007T Metal Plating and Surface Treatment Operations               | <input type="checkbox"/> Map or drawing depicting location of facility            |
| <input checked="" type="checkbox"/> DEP7007V Applicable Requirements and Compliance Activities | <input type="checkbox"/> Safety Data Sheet (SDS)                                  |
| <input type="checkbox"/> DEP7007Y Good Engineering Practice and Stack Height Determination     | <input type="checkbox"/> Emergency Response Plan                                  |
| <input type="checkbox"/> DEP7007AA Compliance Schedule for Non-complying Emission Units        | <input type="checkbox"/> Other: _____   |
| <input type="checkbox"/> DEP7007BB Certified Progress Report                                   |   |

## Section AI.6: Signature Block

**I, the undersigned, hereby certify under penalty of law, that I am a responsible official\*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.**

  
 \_\_\_\_\_  
 Authorized Signature

Harlen Wheatley  
 \_\_\_\_\_  
 Type or Printed Name of Signatory

10/4/2019  
 \_\_\_\_\_  
 Date

Master Distiller  
 \_\_\_\_\_  
 Title of Signatory

\*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations

<div style="text-align: center;"> <b>Division for Air Quality</b>           300 Sower Boulevard          Frankfort, KY 40601          (502) 564-3999       </div>	<b>DEP7007J</b>  Volatile Liquid Storage <input type="checkbox"/> Section J.1: General Information <input type="checkbox"/> Section J.2: Tank Description <input type="checkbox"/> Section J.3: Gasoline Plants and Terminals <input type="checkbox"/> Section J.4: Loading Rack(s) <input type="checkbox"/> Section J.5: Equipment Leaks <input type="checkbox"/> Section J.6: Notes, Comments, and Explanations	<div style="text-align: center; border-bottom: 1px solid black;"> <b>Additional Documentation</b> </div> <input type="checkbox"/> Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.  <input type="checkbox"/> SDS attached
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**Source Name:** Buffalo Trace Distillery, Inc.  
**KY EIS (AFS) #:** 21-073-00009  
**Permit #:** V-12-056  
**Agency Interest (AI) ID:** 1373  
**Date:** 10/4/2019

Section J.1: General Information						
Emission Unit #	Emission Unit Name	Emission Unit Description	Proposed/Actual Date of Construction Commencement (MM/YYYY)	Date of modification/reconstruction	Control Device ID	Stack ID
17_001	Thunder Gas Tank	Gasoline Dispensing Tank 01	Existing	N/A	N/A	N/A
17_002	Farm Gas Tank	Gasoline Dispensing Tank 02	Existing	N/A	N/A	N/A

## Section J.2: Tank Description

Emission Point #: 17

Emission Point Name: Thunder Gas Tank

Tank ID#: 17\_001

Date Installed: Existing

List Applicable Regulations: 40 CFR 63 Subpart CCCCCC

### J.2A: Stored Liquid Data:

Single or Multi-Component Liquid Name(s)	Maximum Annual Throughput (gal/yr)	Liquid Density (lb/gal)	Molecular Weight of Single or Multi- Component Liquid	Percent Composition of Multi-Component Liquid(s)	Temperature ( ° F)		Vapor Pressure (psia)	
					Minimum	Maximum	Minimum	Maximum
Gasoline	98,100	5.60	92	N/A	51.84	62.12	5.95	7.23

**J.2B: Tank Data:**

**Tank Capacity:**  
(gallons)

1,120

**Shell Height/  
Length:** (ft)

6.3

**Shell  
Diameter:**  
(ft)

5.5

**Tank  
Turnovers  
per Year:**

88

**Tank Orientation:**

☒ Horizontal☐ Vertical

If Vertical, provide Maximum Liquid Height:  
(ft)

Average Liquid Height:  
(ft)

2.8

**Shell Color/Shade:**

☐ Red☒ White☐ Light Gray☐ Medium Gray☐ Aluminum Specular☐ Aluminum Diffuse☐ Other: \_\_\_\_\_

**Roof Color:**

☐ Slack☐ White☐ Light Gray☐ Medium Gray☐ Aluminum Specular☐ Aluminum Diffuse☒ Other: N/A

**Tank Type:**

☒ Fixed Roof☐ Internal Floating Roof☐ External Floating Roof☐ Pressure Tank**J.2C: For Fixed Roof Tanks:**

**Roof Type:** (N/A)

☐ Dome☐ Flat☐ Cone

**Dome/Cone Height:**

N/A

ft

**Average Vapor Space  
Height:**

2.0

ft

**Is Tank Underground?:**

☐ Yes☒ No

**Roof Condition:** (N/A)

☐ Good☐ Poor

**Vacuum Setting:**

-0.03

psig

**Is Tank Heated?:**

☐ Yes☒ No

**Shell Condition:**

☒ Good☐ Poor

**Pressure Setting:**

0.03

psig

**J.2D: For All Internal Floating Roof Tanks:**

**Rim Seal Description:**

☐ Vapor Mounted Primary☐ Vapor Mounted Primary plus Secondary Seal☐ Shoe Mounted☐ Liquid Mounted Primary☐ Liquid Mounted Primary plus Secondary Seal☐ Shoe Mounted plus Secondary Seal

**Secondary Seal:**

☐ Rim Mounted☐ Shoe Mounted☐ None

**Internal Shell Condition:**

☐ Light Rust☐ Dense Rust☐ Gunite-lined

**External Shell Condition:**

☐ Good☐ Poor

**Roof Paint Condition:**

☐ Good☐ Poor

**Self Supporting Roof?**

☐ Yes☐ No

**Number of Support Columns:**

**Effective Column Diameter:**

\_\_\_\_\_ ft

**J.2E: Deck Data for Internal Floating Roofs:**

Length of Deck Seam: \_\_\_\_\_ ft

Deck Type: ☐ Bolted ☐ Welded

Type of Deck Fitting: ☐ Access Hatch ☐ Ladder Well ☐ Sample Pipe ☐ Sample Well ☐ Vacuum Breaker  
☐ Column Well ☐ Roof Leg ☐ Hanger Well ☐ Stub Drain ☐ Automatic Gauge Float Well

**Design of each deck fitting:**

(diameter sizes, bolted or gasket covers, sliding cover or fabric seal,  
adjustable or fixed roof leg/hanger well and number)

**J.2F: For All External Floating Roof Tanks:**

Rim Seal Description: ☐ Vapor Mounted Primary ☐ Vapor Mounted Primary Rim Secondary Seal ☐ Vapor Mounted Primary with Weather Shield  
☐ Liquid Mounted Primary ☐ Liquid Mounted Primary Rim Secondary Seal ☐ Liquid Mounted Primary with Weather Shield  
☐ Shoe Mounted Primary ☐ Shoe Mounted Primary Rim Secondary Seal ☐ Shoe Mounted Primary Shoe Secondary

Internal Shell Condition: ☐ Light Rust ☐ Dense Rust ☐ Gunite-linedTank Type: ☐ Riveted ☐ WeldedRoof Type: ☐ Pontoon Roof ☐ Double Deck Roof**J.2G: Deck Data for External Floating Roof Tanks:**

Type of Deck Fitting: ☐ Access Hatch ☐ Gauge Hatch ☐ Sample Well ☐ Roof Leg ☐ Vacuum Breaker  
☐ Guide Pole ☐ Gauge Float ☐ Roof Drain ☐ Rim Vent ☐ Other

**Design of each deck fitting:**

(diameter sizes, bolted or gasket covers, sliding cover, unslotted or slotted  
guide pole well, adjusted or fixed roof leg and number of each design)

<b>J.2H: Emissions Data:</b>					
Attach SDS/Composition Analysis for Each Component Listed (See Attachment B for Gasoline Composition Information)					
<b>Process ID</b>	<b>Component Name</b>	<b>Process Name (e.g. Breathing, Working, Cleaning, Flashing Loss(es))</b>	<b>Lost Emissions (lb/1000 gal)</b>	<b>Frequency of Occurrence</b>	<b>Determination Methodology for Each Type of Loss*</b>
01	Gasoline	Breathing Losses	2.46	Daily	TankESP (AP-42 Section 7.1 Methodology)
02	Gasoline	Working Losses	3.65	Daily	TankESP (AP-42 Section 7.1 Methodology)
03	Gasoline	Loading Losses	11.70	Daily	AP-42 Section 5.2

## Section J.2: Tank Description

Emission Point #: 17

Emission Point Name: Farm Gas Tank

Tank ID#: 17\_002

Date Installed: Existing

List Applicable Regulations: 40 CFR 63 Subpart CCCCCC

### J.2A: Stored Liquid Data:

Single or Multi-Component Liquid Name(s)	Maximum Annual Throughput (gal/yr)	Liquid Density (lb/gal)	Molecular Weight of Single or Multi- Component Liquid	Percent Composition of Multi-Component Liquid(s)	Temperature (°F)		Vapor Pressure (psia)	
					Minimum	Maximum	Minimum	Maximum
Gasoline	21,900	5.60	92	N/A	53.56	71.32	6.15	8.54

**J.2B: Tank Data:**

<b>Tank Capacity:</b> (gallons)	<u>250</u>	<b>Shell Height/ Length: (ft)</b>	<u>5.3</u>	<b>Shell Diameter: (ft)</b>	<u>2.8</u>	<b>Tank Turnovers per Year:</b>	<u>88</u>
<b>Tank Orientation:</b>	<input checked="" type="checkbox"/> Horizontal	<input type="checkbox"/> Vertical	If Vertical, provide Maximum Liquid Height: (ft) _____			Average Liquid Height: (ft) <u>0.2</u>	
<b>Shell Color/Shade:</b>	<input type="checkbox"/> Red	<input type="checkbox"/> White	<input type="checkbox"/> Light Gray	<input type="checkbox"/> Medium Gray	<input type="checkbox"/> Aluminum Specular	<input type="checkbox"/> Aluminum Diffuse	<input checked="" type="checkbox"/> Other: <u>Dark Green</u>
<b>Roof Color:</b>	<input type="checkbox"/> Slack	<input type="checkbox"/> White	<input type="checkbox"/> Light Gray	<input type="checkbox"/> Medium Gray	<input type="checkbox"/> Aluminum Specular	<input type="checkbox"/> Aluminum Diffuse	<input checked="" type="checkbox"/> Other: <u>N/A</u>
<b>Tank Type:</b>	<input checked="" type="checkbox"/> Fixed Roof	<input type="checkbox"/> Internal Floating Roof	<input type="checkbox"/> External Floating Roof		<input type="checkbox"/> Pressure Tank		

**J.2C: For Fixed Roof Tanks:**

<b>Roof Type:</b> (N/A)	<input type="checkbox"/> Dome	<input type="checkbox"/> Flat	<input type="checkbox"/> Cone	<b>Dome/Cone Height:</b>	<u>N/A</u> ft	<b>Average Vapor Space Height:</b>	<u>2.00</u> ft
<b>Is Tank Underground?:</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<b>Roof Condition:</b> (N/A)	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	<b>Vacuum Setting:</b>	<u>-0.03</u> psig
<b>Is Tank Heated?:</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<b>Shell Condition:</b>	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Poor	<b>Pressure Setting:</b>	<u>0.03</u> psig

**J.2D: For All Internal Floating Roof Tanks:**

<b>Rim Seal Description:</b>	<input type="checkbox"/> Vapor Mounted Primary	<input type="checkbox"/> Vapor Mounted Primary plus Secondary Seal	<input type="checkbox"/> Shoe Mounted
	<input type="checkbox"/> Liquid Mounted Primary	<input type="checkbox"/> Liquid Mounted Primary plus Secondary Seal	<input type="checkbox"/> Shoe Mounted plus Secondary Seal
<b>Secondary Seal:</b>	<input type="checkbox"/> Rim Mounted	<input type="checkbox"/> Shoe Mounted	<input type="checkbox"/> None
<b>Internal Shell Condition:</b>	<input type="checkbox"/> Light Rust	<input type="checkbox"/> Dense Rust	<input type="checkbox"/> Gunitite-lined
	<b>External Shell Condition:</b> <input type="checkbox"/> Good <input type="checkbox"/> Poor		
<b>Roof Paint Condition:</b>	<input type="checkbox"/> Good	<input type="checkbox"/> Poor	<b>Self Supporting Roof?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Number of Support Columns:</b>	<u>                    </u>		<b>Effective Column Diameter:</b> <u>          </u> ft

**J.2E: Deck Data for Internal Floating Roofs:**

Length of Deck Seam: \_\_\_\_\_ ft

Deck Type: ☐ Bolted ☐ Welded

Type of Deck Fitting: ☐ Access Hatch ☐ Ladder Well ☐ Sample Pipe ☐ Sample Well ☐ Vacuum Breaker  
☐ Column Well ☐ Roof Leg ☐ Hanger Well ☐ Stub Drain ☐ Automatic Gauge Float Well

**Design of each deck fitting:**

(diameter sizes, bolted or gasket covers, sliding cover or fabric seal,  
adjustable or fixed roof leg/hanger well and number)

**J.2F: For All External Floating Roof Tanks:**

Rim Seal Description: ☐ Vapor Mounted Primary ☐ Vapor Mounted Primary Rim Secondary Seal ☐ Vapor Mounted Primary with Weather Shield  
☐ Liquid Mounted Primary ☐ Liquid Mounted Primary Rim Secondary Seal ☐ Liquid Mounted Primary with Weather Shield  
☐ Shoe Mounted Primary ☐ Shoe Mounted Primary Rim Secondary Seal ☐ Shoe Mounted Primary Shoe Secondary

Internal Shell Condition: ☐ Light Rust ☐ Dense Rust ☐ Gunitite-linedTank Type: ☐ Riveted ☐ WeldedRoof Type: ☐ Pontoon Roof ☐ Double Deck Roof**J.2G: Deck Data for External Floating Roof Tanks:**

Type of Deck Fitting: ☐ Access Hatch ☐ Gauge Hatch ☐ Sample Well ☐ Roof Leg ☐ Vacuum Breaker  
☐ Guide Pole ☐ Gauge Float ☐ Roof Drain ☐ Rim Vent ☐ Other

**Design of each deck fitting:**

(diameter sizes, bolted or gasket covers, sliding cover, unslotted or slotted  
guide pole well, adjusted or fixed roof leg and number of each design)

**J.2H: Emissions Data:**

**Attach SDS/Composition Analysis for Each Component Listed (See Attachment B for Gasoline Composition Information)**

<b>Process ID</b>	<b>Component Name</b>	<b>Process Name (e.g. Breathing, Working, Cleaning, Flashing Loss(es))</b>	<b>Lost Emissions (lb/1000 gal)</b>	<b>Frequency of Occurrence</b>	<b>Determination Methodology for Each Type of Loss*</b>
01	Gasoline	Breathing Losses	6.54	Daily	TankESP (AP-42 Section 7.1 Methodology)
02	Gasoline	Working Losses	2.24	Daily	TankESP (AP-42 Section 7.1 Methodology)
03	Gasoline	Loading Losses	11.70	Daily	AP-42 Section 5.2

<b>Section J.3: Gasoline Plants and Terminals</b>							
<i>Indicate the percentage of one or more of the following modes of transportation for incoming liquid and outgoing liquid:</i>							
	Tank Truck	Trailer	Railcar	Pipeline	Marine Tank	Barge	Other (Specify)
<b>Incoming Liquid Material:</b>	100%						
<b>Outgoing Liquid Material:</b>							Gasoline used to refuel forklifts, loaders, maintenance equipment, etc.
<b>For Gasoline Dispensing Facilities (GDF) only:</b>							
Is the loading of gasoline storage tanks at a GDF located at an area source of hazardous air pollutants as defined in 40 CFR 63.2? <span style="float: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</span>							
Is there the dispensing of gasoline from a fixed storage tank at a GDF into a portable tank for the on-site delivery and subsequent dispensing into gasoline-fueled equipment? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span>							
Maximum monthly throughput in gallons: <span style="float: right; color: blue; text-decoration: underline;">&lt;10,000 gal/mo</span>							
<b>For Bulk Gasoline Plants Only:</b>							
Is the maximum calculated design throughput less than 20,000 gallons (75,700 liters) per day? <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>							
Is gasoline loaded into cargo tanks for transport to gasoline dispensing facilities? <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>							
<b>For Bulk Gasoline Terminals Only:</b>							
Is the maximum calculated design throughput equal to or greater than 20,000 gallons (75,700 liters) per day? <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>							

Is the terminal located at an area source of hazardous air pollutants as defined in 40 CFR 63.2?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does the facility load from marine tank vessel loading operations at all loading berths less than 1.6 billion liters (10 M barrels) of gasoline annually and of less than 32 billion liters (200 M barrels) of crude oil annually?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does the terminal handle any reformatting or oxygenated gasoline containing methyl tertbutyl ether (MTBE), CF?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Indicate the type of vapor control device utilized: <input type="checkbox"/> Incinerator <input type="checkbox"/> Adsorber <input type="checkbox"/> Other		

Section J.6: Notes, Comments, and Explanations
Sections J.4 and J.5 are not applicable to BTD

## Division for Air Quality

300 Sower Boulevard  
Frankfort, KY 40601  
(502) 564-3999

**DEP7007N**

## Source Emissions Profile

- ☐ Section N.1: Emission Summary  
☐ Section N.2: Stack Information  
☐ Section N.3: Fugitive Information  
☐ Section N.4: Notes, Comments, and Explanations

## Additional Documentation

☐ Complete DEP7007AI

Source Name: Buffalo Trace Distillery, Inc.

KY EIS (AFS) #: 21-073-00009

Permit #: V-12-056

Agency Interest (AI) ID: 1373

Date: 10/4/2019

**N.1: Emission Summary**

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	Pollutant	Uncontrolled Emission Factor (lb/SCC Units)	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency (%)	Control Efficiency (%)	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
17_001	Thunder Gas Tank	01	Breathing Losses	NA	NA	NA	0.011	VOC	2.46	TankESP, AP-42 Section 7.1	100.00%	0.00%	0.028	0.028	0.120	0.120
		02	Working Losses	NA	NA	NA	0.011	VOC	3.65	TankESP, AP-42 Chapter 7	100.00%	0.00%	0.041	0.041	0.179	0.179
		03	Loading Losses	NA	NA	NA	0.011	VOC	11.70	AP-42 Section 5.2	100.00%	0.00%	0.131	0.131	0.574	0.574
17_002	Farm Gas Tank	01	Breathing Losses	NA	NA	NA	0.003	VOC	6.54	TankESP, AP-42 Section 7.1	100.00%	0.00%	0.016	0.016	0.072	0.072
		02	Working Losses	NA	NA	NA	0.003	VOC	2.24	TankESP, AP-42 Chapter 7	100.00%	0.00%	0.006	0.006	0.024	0.024
		03	Loading Losses	NA	NA	NA	0.003	VOC	11.70	AP-42 Section 5.2	100.00%	0.00%	0.029	0.029	0.128	0.128

## Section N.2: Stack Information

### UTM Zone:

Stack ID	Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack	Stack Physical Data			Stack UTM Coordinates		Stack Gas Stream Data		
		Equivalent Diameter (ft)	Height (ft)	Base Elevation (ft)	Northing (m)	Easting (m)	Flowrate (acfm)	Temperature (° F)	Exit Velocity (ft/sec)
Tank Vents Only; No Stacks									

Section N.3: Fugitive Information								
Zone:								
Emission Unit #	Emission Unit Name	Process ID	Area Physical Data		Area UTM Coordinates		Area Release Data	
			Length of the X Side (ft)	Length of the Y Side (ft)	Northing (m)	Easting (m)	Release Temperature (°F)	Release Height (ft)

Section N.4: Notes, Comments, and Explanations

<p style="text-align: center;"><b>Division for Air Quality</b></p> <p style="text-align: center;">300 Sower Boulevard Frankfort, KY 40601 (502) 564-3999</p>	<h2 style="margin: 0;">DEP7007V</h2> <h3 style="margin: 0;">Applicable Requirements and Compliance Activities</h3> <p>___ Section V.1: Emission and Operating Limitation(s)</p> <p>___ Section V.2: Monitoring Requirements</p> <p>___ Section V.3: Recordkeeping Requirements</p> <p>___ Section V.4: Reporting Requirements</p> <p>___ Section V.5: Testing Requirements</p> <p>___ Section V.6: Notes, Comments, and Explanations</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Additional Documentation</th> </tr> <tr> <td style="padding: 10px;">___ Complete DEP7007AI</td> </tr> </table>	Additional Documentation	___ Complete DEP7007AI			
Additional Documentation							
___ Complete DEP7007AI							
<p><b>Source Name:</b> <u>Buffalo Trace Distillery, Inc.</u></p> <p><b>KY EIS (AFS) #:</b> <u>21-073-00009</u></p> <p><b>Permit #:</b> <u>V-12-056</u></p> <p><b>Agency Interest (AI) ID:</b> <u>1373</u></p> <p><b>Date:</b> <u>10/4/2019</u></p>							
<b>Section V.1: Emission and Operating Limitation(s)</b>							
<b>Emission Unit #</b>	<b>Emission Unit Description</b>	<b>Applicable Regulation or Requirement</b>	<b>Pollutant</b>	<b>Emission Limit (if applicable)</b>	<b>Voluntary Emission Limit or Exemption (if applicable)</b>	<b>Operating Requirement or Limitation (if applicable)</b>	<b>Method of Determining Compliance with the Emission and Operating Requirement(s)</b>
17_001	Thunder Gas Tank	40 CFR 63.11115(a)	na	na	na	Operate and maintain any affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Follow standard operating procedures for tank loading and dispensing operations, including the applicable practices required by 40 CFR 63.11116.
17_002	Farm Gas Tank	40 CFR 63.11115(a)	na	na	na	Operate and maintain any affected source in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Follow standard operating procedures for tank loading and dispensing operations, including the applicable practices required by 40 CFR 63.11116.
17_001	Thunder Gas Tank	40 CFR 63.11116(a)	na	na	na	Minimize gasoline spills.	Follow standard operating procedures for tank loading and dispensing operations.

<b>Emission Unit #</b>	<b>Emission Unit Description</b>	<b>Applicable Regulation or Requirement</b>	<b>Pollutant</b>	<b>Emission Limit (if applicable)</b>	<b>Voluntary Emission Limit or Exemption (if applicable)</b>	<b>Operating Requirement or Limitation (if applicable)</b>	<b>Method of Determining Compliance with the Emission and Operating Requirement(s)</b>
17_002	Farm Gas Tank	40 CFR 63.11116(a)	na	na	na	Minimize gasoline spills.	Follow standard operating procedures for tank loading and dispensing operations.
17_001	Thunder Gas Tank	40 CFR 63.11116(a)	na	na	na	Clean up spills as expeditiously as practicable.	Follow standard operating procedures for cleaning spills.
17_002	Farm Gas Tank	40 CFR 63.11116(a)	na	na	na	Clean up spills as expeditiously as practicable.	Follow standard operating procedures for cleaning spills.
17_001	Thunder Gas Tank	40 CFR 63.11116(a)	na	na	na	Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use.	Follow standard operating procedures for tank loading and dispensing operations.
17_002	Farm Gas Tank	40 CFR 63.11116(a)	na	na	na	Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use.	Follow standard operating procedures for tank loading and dispensing operations.
17_001	Thunder Gas Tank	40 CFR 63.11116(a)	na	na	na	Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices.	Follow standard operating procedures for tank loading and dispensing operations.
17_002	Farm Gas Tank	40 CFR 63.11116(a)	na	na	na	Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices.	Follow standard operating procedures for tank loading and dispensing operations.

Section V.2: Monitoring Requirements					
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring

<b>Section V.3: Recordkeeping Requirements</b>					
<b>Emission Unit #</b>	<b>Emission Unit Description</b>	<b>Pollutant</b>	<b>Applicable Regulation or Requirement</b>	<b>Parameter Recorded</b>	<b>Description of Recordkeeping</b>
17_001	Thunder Gas Tank		40 CFR 63.11125(d)		Records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment.
17_002	Farm Gas Tank		40 CFR 63.11125(d)		Records of the occurrence and duration of each malfunction of operation or the air pollution control and monitoring equipment.
17_001	Thunder Gas Tank		40 CFR 63.11115(a)		Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
17_002	Farm Gas Tank		40 CFR 63.11115(a)		Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
17_001	Thunder Gas Tank		40 CFR 63.11116(b)		The permittee must have records available within 24 hours of a request by the Administrator to document gasoline throughput.
17_002	Farm Gas Tank		40 CFR 63.11116(b)		The permittee must have records available within 24 hours of a request by the Administrator to document gasoline throughput.

### Section V.4: Reporting Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reported	Description of Reporting
17_001	Thunder Gas Tank		40 CFR 63.11111(e)		The permittee shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon threshold level.
17_002	Farm Gas Tank		40 CFR 63.11111(e)		The permittee shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon threshold level.
17_001	Thunder Gas Tank		40 CFR 63.11126(b)		The permittee shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year. No report is necessary for a calendar year in which no malfunctions occurred.
17_002	Farm Gas Tank		40 CFR 63.11126(b)		The permittee shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year. No report is necessary for a calendar year in which no malfunctions occurred.

Section V.5: Testing Requirements					
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Tested	Description of Testing

Section V.6: Notes, Comments, and Explanations

## ATTACHMENT B

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### Emission Calculations

## B-1. GDF Emissions - Tank Breathing/Working Losses

Table B-1.1. GDF Tank Parameters

Tank Parameters	Thunder Gas Tank (EU 17_001)	Farm Gas Tank (EU 17_002)
Diameter (ft)	5.5	2.8
Length (ft)	6.3	5.3
Volume (gallons)	1,120	250
Roof Type	Horizontal	Horizontal
Shell Finish	White	Dark Green
Shell Condition	Average	Good
Roof Finish	N/A	N/A
Roof Condition	N/A	N/A
Stock	Gasoline	Gasoline
Maximum Throughput (gal/mo) <sup>1</sup>	8,175	1,825
Maximum Throughput (gal/yr)	98,100	21,900

<sup>1</sup> Potential emissions from the GDF at Buffalo Trace's Distillery (BTD) are based on a maximum throughput of 10,000 gallons of gasoline per month. By maintaining the throughput below this threshold, the GDF is subject to the requirements of 40 CFR 63.11116. If this monthly gasoline throughput rate is exceeded, the more burdensome requirements of 40 CFR 63.11117 would apply.

Table B-1.2. Gasoline Stock Information (from TankESP)

Stock Parameters	TankESP Input
Stock Name	Gasoline RVP_X
Stock Abbreviation	GAS_X
MWL	92
MWV	66
Liquid Density (lb/gal)	5.6
Distillation Slope	3
RVP <sup>1</sup>	13
Composition	
Benzene	1.80%
Benzo(g,h,i)perylene	0.00%
Cumene (isopropylbenzene)	0.50%
Cuclohexane	0.24%
Ethylbenzene	1.40%
Hexane (n-)	1.00%
Iso-octane (2,2,4 trimethylpentane)	4.00%
Naphthalene	0.42%
PACs (Chrysene)	0.00%
Toluene	7.00%
Trimethylbenzene (1,2,4)	2.50%
Xylene	7.00%

<sup>1</sup> Potential emissions are calculated in TankESP assuming that the gasoline distributed by the GDF at BTD is conservatively represented by RVP 13.

Table B-1.3. Potential Emissions from GDF Tanks

VOC Emissions	Thunder Gas Tank (EU 17_001)	Farm Gas Tank (EU 17_002)	Total
Estimated standing losses (lbs/yr)	241	143	384
Estimated working losses (lbs/yr)	358	49.0	407
Total VOC emissions (lbs/yr)	599	192	792
Total VOC emissions (tpy)	0.300	0.096	0.396
<b>Speciated Emissions (lb/yr)</b>			
Benzene	2.47	0.831	3.30
Cumene (isopropyl benzene)	0.027	0.010	0.037
Cyclohexane	0.341	0.114	0.455
Ethylbenzene	0.166	0.058	0.224
Hexane (n-)	2.25	0.751	3.00
Iso-octane (2,2,4 trimethyl pentane)	2.78	0.943	3.72
Naphthalene	0.001	4.07E-04	0.002
Toluene	2.68	0.921	3.60
Trimethyl benzene (1,2,4)	0.058	0.021	0.078
Xylene	0.723	0.254	0.977
<b>HAP Emissions</b>			
Total HAP emissions (lb/yr)	11.1	3.77	14.9
Total HAP emissions (tpy)	0.006	0.002	0.007

## B-2. GDF Emissions - Loading Losses

Table B-2.1. Emissions from Loading Losses

Potential Gasoline Usage <sup>2</sup> (1,000 gal/hr)    (1,000 gal/yr)		Emission Factors <sup>1</sup>					Potential Gasoline Dispensing VOM emissions (lb/hr)	Potential Gasoline Dispensing VOM emissions (tpy)
		Vehicle Refueling (no control) (lbs OC/1000 gal)	Vehicle Refueling Spillage (lbs OC/1000 gal)	Splash Filling Underground Storage Tank (lbs OC/1000 gal)	Underground Tank Breathing and Emptying (lbs OC/1000 gal)	Overall Emission Factor (lbs OC/1000 gal)		
0.014	120.00	11.0	0.7	NA <sup>3</sup>	NA <sup>3</sup>	11.70	0.16	0.70
HAP Concentration HAP Emissions							23.12%	
							0.04	0.16

1. Emission factors from AP-42 Section 5.2, Table 5.2-7, Evaporative emissions from gasoline service station operations.

2. Maximum annual throughput corresponds to maximum monthly throughput that can be processed before exceeding the more burdensome requirements under NESHAP CCCCCC.

3. Above ground storage tank - emissions due to standing and loading losses are attributed to the tank rather than to the loading operation. These emissions are presented in Section B-1.

4. HAP concentration is based on the vapor speciation of gasoline as shown in the gasoline tank calculations.

### B-3. GDF Emissions - Summary

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Table B-3.1. PTE Emissions for GDF Operations

VOC Emissions	Thunder Gas Tank (EU 17_001)	Farm Gas Tank (EU 17_002)	Total
Tank Emissions (tpy)	0.300	0.096	0.396
Loading Emissions (tpy)	0.574	0.128	0.702
Total VOC emissions (tpy)	0.874	0.224	1.10
<b>HAP Emissions</b>			
Tank Emissions (tpy)	0.006	0.002	0.007
Loading Emissions (tpy)	0.133	0.030	0.162
Total HAP emissions (tpy)	0.138	0.032	0.170